CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore-64.

17th February 2015

Dear Sir,

Sub: Testing of Solid Block.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no-01'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I) 2005
1	40x20x20	6.90	7.00	When three samples are tested the average water absorption shall not be more than 10% by mass
2		7.10		
3		7.00		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS: 2185(Part-I) 2005
1	40x20x20	1851.4	1861.8	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1862.3		
3		1861.6		

Remarks	Satisfies the Requirements.

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no-01
Name of Agency	M/s. K. R. I. D. L
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	10/02/2015	17/02/2015	7	8.15	335	**14.89**	**14.67**
2					8.14	325	**14.44**	
3					8.16	330	**14.67**	

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no-01.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	13/01/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	53	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	5	mm	Not More Than 10 mm	Satisfies Requirement

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To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore-64.

17th February 2015

Dear Sir,

Sub: Testing of Reinforcement Steel.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no-01'.**

Please find the enclosed Test Report of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

TEST REPORT ON REINFORCEMENT STEEL BARS 8 mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no-01.
Name of the Agency	M/s. K. R. I. D. L.
Date of Test	17/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.395	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.8	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	420	415	Satisfactory
6	U T S (N/Sq.mm)	525	485	Satisfactory

Note:

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no-01.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	17/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	422	415	Satisfactory
6	U T S (N/Sq.mm)	528	485	Satisfactory

Note:

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no 01.
Name of the Agency	M/s. K. R. I. D. L.
Date of Test	17/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	Pass	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	426	415	Satisfactory
6	U T S (N/Sq.mm)	532	485	Satisfactory

Note:

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward no-01.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS. 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	19/01/2015	16/02/2015	28	8.16	480	**21.33**	**21.63**
2					8.18	495	**22.00**	
3					8.17	485	**21.56**	

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